

WYCLIFF KASIRYE

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FULL STACK DEVELOPER

Experienced full-stack engineer with 8 years of expertise in designing and implementing scalable enterprise applications (with a preference for web and mobile development). Proficient in the design, development, and testing phases of the Software Development Lifecycle, with hands-on experience in gathering requirements and deployment phases within Agile Scrum environments. Skilled in working with JavaScript, TypeScript, React, Vue, Next.js, React Native, Node.js, Flask, AWS, GCP, Docker, and Kubernetes, with a focus on scalability, performance, and best practices to deliver reliable and high-quality software solutions.

Object Oriented Programming (OOP) , Continuous Integration , Continuous Deployment, SOLID Principles
, Design Patterns, Database Design and Management, Cloud Computing, Containerization

Languages: JavaScript, TypeScript, Python, Java

Web: HTML, CSS, Bootstrap, TailwindCSS, MaterialUI, Node, React

Web Services: REST API, GraphQL

Web/App Servers: Apache Tomcat

Frameworks: Spring Boot, Express, VueJs, NextJs

Databases: MySQL, PostgreSQL, SQLite, MongoDB, Amazon DynamoDB

Design Patterns: Singleton, Factory, Decorator, Observer

SDLC: Agile, Waterfall

Tools: Maven, Git, Webpack, Babel, Jest, Cypress, Figma, Travis, GitHub Actions, Postman

Platforms: Linux, MacOS

Design Tools: Figma, InVision

Application/Software: Moodle, Cornerstone

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

BEEDEEZ, Paris, France, 03/2021 – 02/2024

French company specialising in corporate learning solutions with a focus on interactive and social learning experiences.

Senior Full Stack Engineer

Designing, building, and maintaining a web and mobile application, handling everything from user interface development to server-side logic and database management.

- Contributed to migrating the backend from monolithic to microservices architecture with Kafka as a messaging queue, improving deployment speed, scalability, and reducing downtime by 50%.
- Developed a live collaboration feature using Yjs and Socket.IO for real-time content synchronization, boosting collaborative learning by 40% and enhancing engagement through interactive quizzes and presentations.
- Implemented interactive quizzes, like number-based, true/false, and picture-based quizzes utilizing JavaScript, enhancing user engagement and improving content retention by 30%.
- Reengineered performance dashboards using Web Workers, improving resource efficiency and reducing page load time by 20%, which provided users with faster data insights.
- Improved frontend load times by 30%, reduced re-renders by 25%, and boosted backend performance with faster data retrieval and optimized database handling.
- Implemented internationalization using i18next, expanding the platform's accessibility to a global audience by 35%.

Technologies Used: React, React Native, NodeJs, Express, NextJs, MongoDB, Material UI, AWS, Redux, React Query, RxJs, Swagger, Mongoose, JWT, Redis, StoryBook.

ANDELA, Kampala, Uganda, 10/2018 – 12/2020

A global talent network that connects companies in United States with highly skilled software engineers.

Software Engineer

Designing, building, and maintaining a web and mobile application, handling everything from user interface development to server-side logic and database management.

- Integrated Google Calendar API to streamline the meeting room booking process, allowing users to manage room reservations effortlessly.
- Developed an automated email reminder system for upcoming meetings using Nodemailer, which decreased meeting no-show rates by 30%.
- Worked on the conference room utilization dashboard using Chart.js, providing valuable insights into occupancy trends, enabling informed decisions on space allocation that led to a 20% increase in office space efficiency.
- Implemented JWT-based authentication across the application, enhancing security and reducing unauthorized access incidents.
- Boosted frontend performance, cutting initial load times and reducing re-renders for a smoother user experience.
- Enhanced backend efficiency with optimized queries, indexing, caching, and data compression, achieving faster data retrieval and improved application responsiveness.

Technologies Used: React, React Native, NodeJs, Express, PostgreSQL, GraphQL, AWS, CSS, Redux, Jest, HTML, Swagger, OAuth, JWT.

WEB INFO-NET, Kampala, Uganda, 04/2014 – 10/2018

A digital solutions company specialising in web development, software engineering, and IT services.

Web developer

Designing, building, and maintaining websites and web applications, handling everything from user interface development to server-side logic and database management.

- Implemented supplier onboarding functionality using JavaScript, Node and React, resulting in a 25% reduction in manual registration errors and faster supplier onboarding times by 30%.
- Contributed to the MobileMoney payment gateway for supplier payments using integrations with local financial institutions, resulting in 99% faster supplier payment processing and eliminating paper-based transactions.
- Implemented the multi-user role management system using access control protocols, resulting in enhanced security and appropriate access levels for different stakeholders.

Technologies Used: React, MySQL, NodeJs, Express, HTML, CSS, OAuth, JWT, WebSockets, Bcrypt, Swagger, GCP.

EDUCATION**Master of Science in Computer Science**

(In progress via distance education; expected completion 12/2026)

Maharishi International University, Fairfield, Iowa

Key Courses: Software Engineering, Web Programming, Web Application Architecture, Algorithms

Bachelor of Science in Computer Science

Makerere University, Kampala, Central (02/2014)